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Annals of Biological Research

Abstract

[Genotype variation, age and body condition score on some paired](#)

[testes measurements among common indigenous bull cattle breeds in Mubi Adamawa State, Nigeria](#)

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The four common breeds of cattle in Nigeria: Rahaji (RJ), Bunaji (BJ), adamawa Gudali (AG) and Sokoto Gudali (SG) were assessed for variation in testicular measurements the variation due to breed, year, age and body condition score (BCS). Significant ($P < 0.001$) genotype variability were observed on all the paired testes parameters indicating RJ bulls having the highest followed by BJ, SG and AG. Paired intact testes weight (P1TW) values were: $486.46 \pm 10.29g$, $464.94 \pm 9.51g$, $358.86 \pm 9.2g$ and $296.88 \pm 9.78g$ respectively. The corresponding paired intact testes volume (P1TV) values were $491.45 \pm 10.30cm^3$, $457.23 \pm 9.52cm^3$, $359.48 \pm 9.93cm^3$ and $295.12 \pm 9.78cm^3$, paired testes weight (PTW) values were $464.99 \pm 8.81g$, $431.14 \pm 8.15g$, $325.08 \pm 8.50g$ and $270.40 \pm 8.38g$. Respective paired testes volume (PTV) values were $456.67 \pm 9.28cm^3$, $322.77 \pm 8.94cm^3$ and $268.23 \pm 8.82cm^3$; for net paired testes weight (NPTW) were $433.22 \pm 8.52g$, $399.58 \pm 7.88g$, $294.10 \pm 8.22g$ and $241.73 \pm 8.10g$. Corresponding net paired testes volume (NPTV) values were $431.20 \pm 8.63cm^3$, $398.42 \pm 7.98cm^3$, $295.12 \pm 8.32cm^3$ and $240.41 \pm 8.20cm^3$ while the scrotal circumference (SC) values were $31.44 \pm 0.15cm$, $30.22 \pm 0.14cm$, $29.96 \pm 0.15cm$ and $29.59 \pm 0.14cm$. Generally however, RJ bulls were found to have highest paired testes measurement followed by BJ and SG while AG had the least. Age group ? 4years recorded the highest values while age group 21/2 – 3 years had the least. Body condition score of 5 had the highest values followed by 4, 3 and 2.

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